

## Arduino Temperature and Humidity Monitor

This is a basic project I made using an Arduino Uno, DHT11 sensor, and a 16x2 LCD (without I2C). It reads the temperature and humidity and shows it on the LCD screen. It's a simple offline project no Wi-Fi or internet needed.

### Components I Used

- Arduino Uno
- DHT11 Temperature & Humidity Sensor
- 16x2 LCD Display (non-I2C)
- 10k Potentiometer
- Breadboard and jumper wires
- USB Cable

### Connections

#### DHT11:

- VCC → 5V
- GND → GND
- DATA → Pin 7

#### LCD (non-I2C):

- RS → Pin 12
- EN → Pin 11
- D4 → Pin 5
- D5 → Pin 4
- D6 → Pin 3
- D7 → Pin 2
- VSS → GND
- VDD → 5V
- VO → Middle pin of potentiometer
- RW → GND

### Code

I've uploaded the Arduino code in this repo as "TempMonitor.ino". It reads the sensor values and displays them on the LCD.

### # Output

The LCD shows: